

PUB-NO: EP000900869A2

DOCUMENT-IDENTIFIER: EP 900869 A2

TITLE: Process of manufacturing a
hydroentangled nonwoven web,
fabric and lining made therefrom

PUBN-DATE: March 10, 1999

INVENTOR-INFORMATION:

NAME

FLEISSNER, GEROLD

COUNTRY

CH

ASSIGNEE-INFORMATION:

NAME

FLEISSNER MASCHF GMBH CO

COUNTRY

DE

APPL-NO: EP98114240

APPL-DATE: July 30, 1998

PRIORITY-DATA: DE19739049A (September 5, 1997)

INT-CL (IPC): D04H001/46, E04D005/02

EUR-CL (EPC): E04D005/02 ; D04H001/46, D04H003/10 ,
D04H013/00

ABSTRACT:

CHG DATE=19990702 STATUS=O> For the prodn. of nonwovens, continuous filaments are laid directly after spinning into a web of a consistent thickness. The web is needle bonded by a hydrodynamic action to give a high tensile nonwoven, to be used as a carrier layer without a bonding agent. The entire surface is given a functional coating. The bonded nonwoven is heat

treated to give three-dimensional stability, before coating with a bitumen material. A glass fiber layer is bonded to the needle-bonded nonwoven before and/or with the bitumen coating action, or the glass fiber layer can be impregnated with bitumen. The hydrodynamic needle bonding is applied with an energy of at least 0.3 kWh/kg fibers. The hydrodynamic needling is applied alternately to both sides of the continuous moving web, and the needling develops a perforated structure in the material. POLYMERS - The continuous filaments are of pure polyethylene (PE), or of polyamide fibers, polyolefin filaments and pref. polyethylene or polypropylene filaments.

DERWENT-ACC-NO: 1999-168932

DERWENT-WEEK: 199945

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Nonwoven fabric - for use as a
ground material for a floor covering

INVENTOR: FLEISSNER, G

PATENT-ASSIGNEE: FLEISSNER GMBH & CO MASCHFAB [FLSS]

PRIORITY-DATA: 1997DE-1039049 (September 5, 1997)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
EP 900869 A2		March 10, 1999	G
003	D04H	001/46	
DE 19739049 A1		March 11, 1999	N/A
000	D04H	001/46	

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE
IT LI LT LU LV MC MK
NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
EP 900869A2		N/A	
1998EP-0114240		July 30, 1998	
DE 19739049A1		N/A	
1997DE-1039049		September 5, 1997	

INT-CL (IPC): D04H001/46, D06N005/00 , E04D005/02

ABSTRACTED-PUB-NO: EP 900869A

BASIC-ABSTRACT:

NOVELTY - For the prodn. of nonwovens, continuous filaments

are laid directly after spinning into a web of a consistent thickness. The web is needle bonded by a hydrodynamic action to give a high tensile nonwoven, to be used as a carrier layer without a bonding agent. The entire surface is given a functional coating.

DETAILED DESCRIPTION - The bonded nonwoven is heat treated to give three-dimensional stability, before coating with a bitumen material. A glass fiber layer is bonded to the needle-bonded nonwoven before and/or with the bitumen coating action, or the glass fiber layer can be impregnated with bitumen. The hydrodynamic needle bonding is applied with an energy of at least 0.3 kWh/kg fibers. The hydrodynamic needling is applied alternately to both sides of the continuous moving web, and the needling develops a perforated structure in the material.

POLYMERS - The continuous filaments are of pure polyethylene (PE), or of polyamide fibers, polyolefin filaments and pref. polyethylene or polypropylene filaments.

USE - The material can be used as the ground material for floor coverings, with surface piles tufted into one surface.

ADVANTAGE - The process gives a continuous and high tensile nonwoven web, without bonding agents or locking fibers, at an economic cost

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: NONWOVEN FABRIC GROUND MATERIAL FLOOR COVER

DERWENT-CLASS: A93 F04

CPI-CODES: A12-R01; A12-S05G; F02-C01; F04-E;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D82 ;
R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58
D83 ; H0000
; S9999 S1183 S1161 S1070 ; P1150 ; P1161 ; P1343

Polymer Index [1.2]

018 ; P0635*R F70 D01 ; S9999 S1183 S1161 S1070

Polymer Index [1.3]

018 ; G0033*R G0022 D01 D02 D51 D53 ; H0000 ; H0011*R ;
S9999 S1183
S1161 S1070 ; P1150

Polymer Index [1.4]

018 ; ND07 ; N9999 N6020 N6008 ; N9999 N6962*R ; N9999
N6199 N6177
; B9999 B4897 B4740 ; B9999 B4171 B4091 B3838 B3747 ;
K9892 ; Q9999
Q6848 Q6826

Polymer Index [1.5]

018 ; B9999 B5447 B5414 B5403 B5276

Polymer Index [1.6]

018 ; G2891 D00 Si 4A

Polymer Index [2.1]

018 ; G3601*R P0599 D01

Polymer Index [2.2]

018 ; ND07 ; N9999 N6020 N6008 ; N9999 N6962*R ; N9999
N6199 N6177
; B9999 B4897 B4740 ; B9999 B4171 B4091 B3838 B3747 ;
K9892 ; Q9999

Q6848 Q6826

Polymer Index [2.3]

018 ; N9999 N7090 N7034 N7023 ; N9999 N7147 N7034 N7023

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers:

C1999-049541